Robert J Lefkowitz

List of Publications by Year
in descending order

155 papers	42,738 citations	3874 91 h-index	9346 148 g-index
157 all docs	157 docs citations	157 times ranked	23243 citing authors

#	Article	IF	Citations
1	Seven-transmembrane receptors. Nature Reviews Molecular Cell Biology, 2002, 3, 639-650.	16.1	2,357
2	Transduction of Receptor Signals by Â-Arrestins. Science, 2005, 308, 512-517.	6.0	1,570
3	Cloning of the gene and cDNA for mammalian Î²-adrenergic receptor and homology with rhodopsin. Nature, 1986, 321, 75-79.	13.7	1,284
4	Î²-Arrestins and Cell Signaling. Annual Review of Physiology, 2007, 69, 483-510.	5.6	1,277
5	Turning off the signal: desensitization of Î²â€adrenergic receptor function. FASEB Journal, 1990, 4, 2881-2889.	0.2	1,209
6	G PROTEINâ€"COUPLED RECEPTOR KINASES. Annual Review of Biochemistry, 1998, 67, 653-692.	5.0	1,194
7	Switching of the coupling of the Î²2-adrenergic receptor to different G proteins by protein kinase A. Nature, 1997, 390, 88-91.	13.7	1,176
8	Enhanced Morphine Analgesia in Mice Lacking -Arrestin 2 . Science, 1999, 286, 2495-2498.	6.0	953
9	The role of Î²-arrestins in the termination and transduction of G-protein-coupled receptor signals. Journal of Cell Science, 2002, 115, 455-465.	1.2	935
10	Seven-transmembrane-spanning receptors and heart function. Nature, 2002, 415, 206-212.	13.7	862
11	Î¼-Opioid receptor desensitization by Î²-arrestin-2 determines morphine tolerance but not dependence. Nature, 2000, 408, 720-723.	13.7	834
12	The role of beta-arrestins in the termination and transduction of G-protein-coupled receptor signals. Journal of Cell Science, 2002, 115, 455-65.	1.2	780
13	Molecular mechanisms of receptor desensitization using the Î²-adrenergic receptor-coupled adenylate cyclase system as a model. Nature, 1985, 317, 124-129.	13.7	758
14	beta -Arrestin 2: A Receptor-Regulated MAPK Scaffold for the Activation of JNK3. , 2000, 290, 1574-1577.		752
15	Teaching old receptors new tricks: biasing seven-transmembrane receptors. Nature Reviews Drug Discovery, 2010, 9, 373-386.	21.5	724
16	Î²-Arrestin-dependent, G Protein-independent ERK1/2 Activation by the Î²2 Adrenergic Receptor. Journal of Biological Chemistry, 2006, 281, 1261-1273.	1.6	651
17	Î²-arrestin-mediated receptor trafficking and signal transduction. Trends in Pharmacological Sciences, 2011, 32, 521-533.	4.0	628
18	Independent Â-arrestin 2 and G protein-mediated pathways for angiotensin II activation of extracellular signal-regulated kinases 1 and 2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10782-10787.	3.3	620

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19	The genomic clone G-21 which resembles a Î²-adrenergic receptor sequence encodes the 5-HT1A receptor. Nature, 1988, 335, 358-360.	13.7	611
20	The Î²2-adrenergic receptor interacts with the Na+/H+-exchanger regulatory factor to control Na+/H+ exchange. Nature, 1998, 392, 626-630.	13.7	566
21	Receptor-tyrosine-kinase- and GÎ²Î³-mediated MAP kinase activation by a common signalling pathway. Nature, 1995, 376, 781-784.	13.7	554
22	A unique mechanism of Î²-blocker action: Carvedilol stimulates Î²-arrestin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16657-16662.	3.3	545
23	Cross-talk between cellular signalling pathways suggested by phorbol-ester-induced adenylate cyclase phosphorylation. Nature, 1987, 327, 67-70.	13.7	538
24	Molecular Mechanism of Î²-Arrestin-Biased Agonism at Seven-Transmembrane Receptors. Annual Review of Pharmacology and Toxicology, 2012, 52, 179-197.	4.2	536
25	Distinct Phosphorylation Sites on the Î² ₂ -Adrenergic Receptor Establish a Barcode That Encodes Differential Functions of Î²-Arrestin. Science Signaling, 2011, 4, ra51.	1.6	535
26	Biased signalling: from simple switches to allosteric microprocessors. Nature Reviews Drug Discovery, 2018, 17, 243-260.	21.5	524
27	An intronless gene encoding a potential member of the family of receptors coupled to guanine nucleotide regulatory proteins. Nature, 1987, 329, 75-79.	13.7	513
28	Î²-arrestin- but not G protein-mediated signaling by the â€œdecoyâ€•receptor CXCR7. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 628-632.	3.3	499
29	Protein kinases that phosphorylate activated G proteinâ€coupled receptors. FASEB Journal, 1995, 9, 175-182.	0.2	494
30	Activation of the cloned muscarinic potassium channel by G protein Î²Î³ subunits. Nature, 1994, 370, 143-146.	13.7	484
31	Role of c-Src Tyrosine Kinase in G Protein-coupled Receptorand GÎ²Î³ Subunit-mediated Activation of Mitogen-activated Protein Kinases. Journal of Biological Chemistry, 1996, 271, 19443-19450.	1.6	483
32	Therapeutic potential of Î²-arrestin- and G protein-biased agonists. Trends in Molecular Medicine, 2011, 17, 126-139.	3.5	469
33	Differential Kinetic and Spatial Patterns of Î²-Arrestin and G Protein-mediated ERK Activation by the Angiotensin II Receptor. Journal of Biological Chemistry, 2004, 279, 35518-35525.	1.6	455
34	GPCR-G Protein-Î²-Arrestin Super-Complex Mediates Sustained G Protein Signaling. Cell, 2016, 166, 907-919.	13.5	443
35	Removal of phosphorylation sites from the Î²2-adrenergic receptor delays onset of agonist-promoted desensitization. Nature, 1988, 333, 370-373.	13.7	439
36	Visualization of arrestin recruitment by a G-protein-coupled receptor. Nature, 2014, 512, 218-222.	13.7	433

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37	Physiological effects of inverse agonists in transgenic mice with myocardial overexpression of the Î²2-adrenoceptor. Nature, 1995, 374, 272-276.	13.7	431
38	Distinct Î²-Arrestin- and G Protein-dependent Pathways for Parathyroid Hormone Receptor-stimulated ERK1/2 Activation. Journal of Biological Chemistry, 2006, 281, 10856-10864.	1.6	422
39	GÎ²Î³ Subunits Mediate Src-dependent Phosphorylation of the Epidermal Growth Factor Receptor. Journal of Biological Chemistry, 1997, 272, 4637-4644.	1.6	420
40	Classical and new roles of Î²-arrestins in the regulation of G-PROTEIN-COUPLED receptors. Nature Reviews Neuroscience, 2001, 2, 727-733.	4.9	413
41	Î²-Arrestinâ€“mediated Î²1-adrenergic receptor transactivation of the EGFR confers cardioprotection. Journal of Clinical Investigation, 2007, 117, 2445-2458.	3.9	405
42	Distinct Pathways of Gi- and Gq-mediated Mitogen-activated Protein Kinase Activation. Journal of Biological Chemistry, 1995, 270, 17148-17153.	1.6	397
43	Structure of active Î²-arrestin-1 bound to a G-protein-coupled receptor phosphopeptide. Nature, 2013, 497, 137-141.	13.7	393
44	Emerging paradigms of Î²-arrestin-dependent seven transmembrane receptor signaling. Trends in Biochemical Sciences, 2011, 36, 457-469.	3.7	380
45	Historical review: A brief history and personal retrospective of seven-transmembrane receptors. Trends in Pharmacological Sciences, 2004, 25, 413-422.	4.0	363
46	Keeping G Proteins at Bay: A Complex Between G Protein-Coupled Receptor Kinase 2 and Gbetagamma. Science, 2003, 300, 1256-1262.	6.0	361
47	A stress response pathway regulates DNA damage through Î²2-adrenoreceptors and Î²-arrestin-1. Nature, 2011, 477, 349-353.	13.7	360
48	Î²-Arrestin Scaffolding of the ERK Cascade Enhances Cytosolic ERK Activity but Inhibits ERK-mediated Transcription following Angiotensin AT1a Receptor Stimulation. Journal of Biological Chemistry, 2002, 277, 9429-9436.	1.6	345
49	Quantifying Ligand Bias at Seven-Transmembrane Receptors. Molecular Pharmacology, 2011, 80, 367-377.	1.0	341
50	Functional antagonism of different G protein-coupled receptor kinases for Â-arrestin-mediated angiotensin II receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1442-1447.	3.3	318
51	The Stability of the G Protein-coupled Receptor-Î²-Arrestin Interaction Determines the Mechanism and Functional Consequence of ERK Activation. Journal of Biological Chemistry, 2003, 278, 6258-6267.	1.6	316
52	Isoprenylation in regulation of signal transduction by G-protein-coupled receptor kinases. Nature, 1992, 359, 147-150.	13.7	310
53	Identification, Quantification, and Localization of mRNA for Three Distinct Alpha₁Adrenergic Receptor Subtypes in Human Prostate. Journal of Urology, 1993, 150, 546-551.	0.2	310
54	Different G protein-coupled receptor kinases govern G protein and Â-arrestin-mediated signaling of V2 vasopressin receptor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1448-1453.	3.3	298

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55	Allosteric nanobodies reveal the dynamic range and diverse mechanisms of G-protein-coupled receptor activation. Nature, 2016, 535, 448-452.	13.7	290
56	Distinct conformations of GPCRâ€"Î²-arrestin complexes mediate desensitization, signaling, and endocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2562-2567.	3.3	281
57	New Roles for Î²-Arrestins in Cell Signaling: Not Just for Seven-Transmembrane Receptors. Molecular Cell, 2006, 24, 643-652.	4.5	273
58	Î²-arrestins: traffic cops of cell signaling. Current Opinion in Cell Biology, 2004, 16, 162-168.	2.6	269
59	A region of adenylyl cyclase 2 critical for regulation by G protein beta gamma subunits. Science, 1995, 268, 1166-1169.	6.0	261
60	Recent developments in biased agonism. Current Opinion in Cell Biology, 2014, 27, 18-24.	2.6	247
61	Structure of the M2 muscarinic receptorâ€"Î²-arrestin complex in a lipid nanodisc. Nature, 2020, 579, 297-302.	13.7	238
62	Î²-Arrestin-biased Agonism at the Î²2-Adrenergic Receptor. Journal of Biological Chemistry, 2008, 283, 5669-5676.	1.6	226
63	A Brief History of Gâ€Protein Coupled Receptors (Nobel Lecture). Angewandte Chemie - International Edition, 2013, 52, 6366-6378.	7.2	222
64	Desensitization, internalization, and signaling functions of Â-arrestins demonstrated by RNA interference. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1740-1744.	3.3	210
65	Light-dependent phosphorylation of rhodopsin by Î²-adrenergic receptor kinase. Nature, 1986, 321, 869-872.	13.7	207
66	Identification of the G Protein-coupled Receptor Kinase Phosphorylation Sites in the Human Î²2-Adrenergic Receptor. Journal of Biological Chemistry, 1996, 271, 13796-13803.	1.6	205
67	Angiotensin Analogs with Divergent Bias Stabilize Distinct Receptor Conformations. Cell, 2019, 176, 468-478.e11.	13.5	194
68	Protein Kinase A-mediated Phosphorylation of the Î²2-Adrenergic Receptor Regulates Its Coupling to Gs and Gi. Journal of Biological Chemistry, 2002, 277, 31249-31256.	1.6	175
69	Manifold roles of Î²-arrestins in GPCR signaling elucidated with siRNA and CRISPR/Cas9. Science Signaling, 2018, 11, .	1.6	169
70	Molecular mechanism of biased signaling in a prototypical G proteinâ€"coupled receptor. Science, 2020, 367, 881-887.	6.0	168
71	Î²-Arrestin-2 regulates the development of allergic asthma. Journal of Clinical Investigation, 2003, 112, 566-574.	3.9	166
72	Dancing with Different Partners: Protein Kinase A Phosphorylation of Seven Membrane-Spanning Receptors Regulates Their G Protein-Coupling Specificity. Molecular Pharmacology, 2002, 62, 971-974.	1.0	162

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73	Reciprocal Regulation of Angiotensin Receptor-activated Extracellular Signal-regulated Kinases by Î²-Arrestins 1 and 2. Journal of Biological Chemistry, 2004, 279, 7807-7811.	1.6	157
74	Constitutive Protease-activated Receptor-2-mediated Migration of MDA MB-231 Breast Cancer Cells Requires Both Î²-Arrestin-1 and -2. Journal of Biological Chemistry, 2004, 279, 55419-55424.	1.6	155
75	Angiotensin and biased analogs induce structurally distinct active conformations within a GPCR. Science, 2020, 367, 888-892.	6.0	150
76	Mechanism of intracellular allosteric Î²2AR antagonist revealed by X-ray crystal structure. Nature, 2017, 548, 480-484.	13.7	148
77	Conformational Basis of G Protein-Coupled Receptor Signaling Versatility. Trends in Cell Biology, 2020, 30, 736-747.	3.6	147
78	Distinctive Activation Mechanism for Angiotensin Receptor Revealed by a Synthetic Nanobody. Cell, 2019, 176, 479-490.e12.	13.5	143
79	Structure of an endosomal signaling GPCRâ€"G proteinâ€"Î²-arrestin megacomplex. Nature Structural and Molecular Biology, 2019, 26, 1123-1131.	3.6	139
80	Activation-dependent Conformational Changes in Î²-Arrestin 2. Journal of Biological Chemistry, 2004, 279, 55744-55753.	1.6	135
81	Pharmacological Characterization of Membrane-Expressed Human Trace Amine-Associated Receptor 1 (TAAR1) by a Bioluminescence Resonance Energy Transfer cAMP Biosensor. Molecular Pharmacology, 2008, 74, 585-594.	1.0	135
82	Intracoronary Adenovirus-Mediated Delivery and Overexpression of the Î² ₂ -Adrenergic Receptor in the Heart. Circulation, 2000, 101, 408-414.	1.6	133
83	Differential regulation of the Î±2-adrenergic receptor by Na+ and guanine nucleotides. Nature, 1980, 288, 709-711.	13.7	123
84	The Active Conformation of Î²-Arrestin1. Journal of Biological Chemistry, 2007, 282, 21370-21381.	1.6	121
85	Regulation of<i>Î²</i>₂-Adrenergic Receptor Function by Conformationally Selective Single-Domain Intrabodies. Molecular Pharmacology, 2014, 85, 472-481.	1.0	121
86	Allosteric â€œbeta-blockerâ€•isolated from a DNA-encoded small molecule library. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1708-1713.	3.3	118
87	Pure Î²-adrenergic receptor: the single polypeptide confers catecholamine responsiveness to adenylate cyclase. Nature, 1983, 306, 562-566.	13.7	117
88	A role for Ni in the hormonal stimulation of adenylate cyclase. Nature, 1985, 318, 293-295.	13.7	107
89	Divergent Transducer-specific Molecular Efficacies Generate Biased Agonism at a G Protein-coupled Receptor (GPCR). Journal of Biological Chemistry, 2014, 289, 14211-14224.	1.6	105
90	ACTHâ€RECEPTOR INTERACTION IN THE ADRENAL: A MODEL FOR THE INITIAL STEP IN THE ACTION OF HORMONES THAT STIMULATE ADENYL CYCLASE. Annals of the New York Academy of Sciences, 1971, 185, 195-209.	1.8	104

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91	Turned on to ill effect. Nature, 1993, 365, 603-604.	13.7	101
92	Î²-Arrestin-2 regulates the development of allergic asthma. Journal of Clinical Investigation, 2003, 112, 566-574.	3.9	99
93	Chronic guanethidine treatment increases cardiac Î²-adrenergic receptors. Nature, 1978, 273, 240-242.	13.7	89
94	Phosphorylation of Î²-Arrestin2 Regulates Its Function in Internalization of Î²2-Adrenergic Receptors. Biochemistry, 2002, 41, 10692-10699.	1.2	87
95	Augmentation of Cardiac Contractility Mediated by the Human Î² ₃ -Adrenergic Receptor Overexpressed in the Hearts of Transgenic Mice. Circulation, 2001, 104, 2485-2491.	1.6	85
96	Î²-Arrestin-mediated Signaling Regulates Protein Synthesis. Journal of Biological Chemistry, 2008, 283, 10611-10620.	1.6	84
97	Mechanism of Î² ₂ AR regulation by an intracellular positive allosteric modulator. Science, 2019, 364, 1283-1287.	6.0	82
98	Î²-Arrestin Deficiency Protects Against Pulmonary Fibrosis in Mice and Prevents Fibroblast Invasion of Extracellular Matrix. Science Translational Medicine, 2011, 3, 74ra23.	5.8	81
99	Stable Interaction between Î²-Arrestin 2 and Angiotensin Type 1A Receptor Is Required for Î²-Arrestin 2-mediated Activation of Extracellular Signal-regulated Kinases 1 and 2. Journal of Biological Chemistry, 2004, 279, 48255-48261.	1.6	76
100	Small-Molecule Positive Allosteric Modulators of the<i>Î²</i>₂-Adrenoceptor Isolated from DNA-Encoded Libraries. Molecular Pharmacology, 2018, 94, 850-861.	1.0	66
101	Discovery of Î²2 Adrenergic Receptor Ligands Using Biosensor Fragment Screening of Tagged Wild-Type Receptor. ACS Medicinal Chemistry Letters, 2013, 4, 1005-1010.	1.3	65
102	Conformationally selective RNA aptamers allosterically modulate the Î²2-adrenoceptor. Nature Chemical Biology, 2016, 12, 709-716.	3.9	65
103	Î²-Arrestin2 Couples Metabotropic Glutamate Receptor 5 to Neuronal Protein Synthesis and Is a Potential Target to Treat Fragile X. Cell Reports, 2017, 18, 2807-2814.	2.9	60
104	Sortase ligation enables homogeneous GPCR phosphorylation to reveal diversity in Î²-arrestin coupling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3834-3839.	3.3	57
105	Allosteric Modulation of Î²-Arrestin-biased Angiotensin II Type 1 Receptor Signaling by Membrane Stretch. Journal of Biological Chemistry, 2014, 289, 28271-28283.	1.6	55
106	Arrestins Come of Age. Progress in Molecular Biology and Translational Science, 2013, 118, 3-18.	0.9	50
107	Regulation of the Î²2-adrenergic receptor and its mRNA in the rat ventral prostate by testosterone. FEBS Letters, 1988, 233, 173-176.	1.3	49
108	Palmitoylation Increases the Kinase Activity of the G Protein-Coupled Receptor Kinase, GRK6â€. Biochemistry, 1998, 37, 16053-16059.	1.2	48

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109	G proteinâ€“coupled receptor kinases (GRKs) orchestrate biased agonism at the Î² ₂ -adrenergic receptor. Science Signaling, 2018, 11, .	1.6	47
110	GPCR-mediated Î²-arrestin activation deconvoluted with single-molecule precision. Cell, 2022, 185, 1661-1675.e16.	13.5	43
111	Introduction to Special Section on Î²-Arrestins. Annual Review of Physiology, 2007, 69, .	5.6	42
112	Î±-Actinin is a potent regulator of G protein-coupled receptor kinase activity and substrate specificity in vitro. FEBS Letters, 2000, 473, 280-284.	1.3	39
113	Detergent- and phospholipid-based reconstitution systems have differential effects on constitutive activity of G-proteinâ€“coupled receptors. Journal of Biological Chemistry, 2019, 294, 13218-13223.	1.6	38
114	Î²-arrestin 1 regulates Î²2-adrenergic receptor-mediated skeletal muscle hypertrophy and contractility. Skeletal Muscle, 2018, 8, 39.	1.9	37
115	Molecular Mechanisms of Coupling in Hormone Receptor-Adenylate Cyclase Systems. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 53, 1-43.	1.3	36
116	Myocardial G Proteinâ€Coupled Receptor Kinases: Implications for Heart Failure Therapy. Proceedings of the Association of American Physicians, 1999, 111, 399-405.	2.1	35
117	Synthetic nanobodies as angiotensin receptor blockers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20284-20291.	3.3	35
118	SnapShot: Î²-Arrestin Functions. Cell, 2020, 182, 1362-1362.e1.	13.5	35
119	Altered airway and cardiac responses in mice lacking G protein-coupled receptor kinase 3. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1214-R1221.	0.9	33
120	Temperature immutability of adenyl cyclase-coupled Î² adrenergic recptors. Nature, 1974, 249, 258-260.	13.7	31
121	Mechanisms involved in adrenergic receptor desensitization. Biochemical Society Transactions, 1990, 18, 541-544.	1.6	31
122	Î²-Adrenoreceptors determine affinity but not intrinsic activity of adenylate cyclase stimulants. Nature, 1979, 280, 502-504.	13.7	25
123	<i>Î²</i>-Arrestinâ€“Biased Allosteric Modulator Potentiates Carvedilol-Stimulated <i>Î²</i> Adrenergic Receptor Cardioprotection. Molecular Pharmacology, 2021, 100, 568-579.	1.0	24
124	Variations on a theme. Nature, 1991, 351, 353-354.	13.7	22
125	Receptor regulation: Î²-arrestin moves up a notch. Nature Cell Biology, 2005, 7, 1159-1161.	4.6	22
126	Signaling at the endosome: cryoâ€EM structure of a GPCRâ€“G proteinâ€“betaâ€arrestin megacomplex. FEBS Journal, 2021, 288, 2562-2569.	2.2	22

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127	Allosteric activation of proto-oncogene kinase Src by GPCRâ€"beta-arrestin complexes. Journal of Biological Chemistry, 2020, 295, 16773-16784.	1.6	21
128	GPCR signaling: conformational activation of arrestins. Cell Research, 2018, 28, 783-784.	5.7	20
129	Effect of pertussis toxin on Î±2 -adrenoceptors: decreased formation of the high-affinity state for agonists. FEBS Letters, 1984, 172, 95-98.	1.3	19
130	The Î²-arrestin-biased Î²-adrenergic receptor blocker carvedilol enhances skeletal muscle contractility. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12435-12443.	3.3	19
131	Î²-Arrestinâ€"Biased Angiotensin II Receptor Agonists for COVID-19. Circulation, 2020, 142, 318-320.	1.6	19
132	Unique Positive Cooperativity Between the <i>Î²</i>-Arrestinâ€"Biased <i>Î²</i>-Blocker Carvedilol and a Small Molecule Positive Allosteric Modulator of the <i>Î²</i>2-Adrenergic Receptor. Molecular Pharmacology, 2021, 100, 513-525.	1.0	18
133	Comparison of specificity of agonist and antagonist radioligand binding to Î² adrenergic receptors. Nature, 1977, 268, 453-454.	13.7	17
134	The role of Î²-arrestin2-dependent signaling in thoracic aortic aneurysm formation in a murine model of Marfan syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1516-H1527.	1.5	17
135	Cloning of the cDNA and Genes for the Hamster and Human Î²2-Adrenergic Receptors. Journal of Receptors and Signal Transduction, 1988, 8, 7-21.	1.2	13
136	Identification of the Subunit Structure of Rat Pineal Adrenergic Receptors by Photoaffinity Labeling. Journal of Neurochemistry, 1986, 46, 1153-1160.	2.1	12
137	Translating science to medicine: The case for physician-scientists. Science Translational Medicine, 2022, 14, eabg7852.	5.8	11
138	Eine kurze Geschichte der Gâ€Proteinâ€gekoppelten Rezeptoren (Nobelâ€Aufsatz). Angewandte Chemie, 2013, 125, 6494-6507.	1.6	9
139	Beta-adrenergic receptors: Regulatory role of agonists. Journal of Supramolecular Structure, 1978, 8, 501-510.	2.3	7
140	Title is missing!. Die Makromolekulare Chemie, 1981, 182, 1945-1950.	1.1	7
141	The GPCRâ€"Î²-arrestin complex allosterically activates C-Raf by binding its amino terminus. Journal of Biological Chemistry, 2021, 297, 101369.	1.6	7
142	Dihydroergocryptine binding and Î±-adrenoreceptors in smooth muscle. Nature, 1980, 283, 109-110.	13.7	6
143	Costimulation of Adenylyl Cyclase and Phospholipase C by a MutantÎ± 1B-Adrenergic Receptor Transgene Promotes Malignant Transformation of Thyroid Follicular Cells. , 0, .		6
144	Summary of Wenner-Gren International Symposium Receptor-Receptor Interactions Among Heptaspanning Membrane Receptors: From Structure to Function. Journal of Molecular Neuroscience, 2005, 26, 293-294.	1.1	5

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145	Î²-Arrestin2 mediates progression of murine primary myelofibrosis. JCI Insight, 2017, 2, .	2.3	5
146	A Serendipitous Scientist. Annual Review of Pharmacology and Toxicology, 2018, 58, 17-32.	4.2	4
147	Molecular Mechanism of Biased Signaling in a Prototypical G-protein-coupled Receptor. Biophysical Journal, 2020, 118, 162a.	0.2	4
148	A tale of two callings. Journal of Clinical Investigation, 2011, 121, 4201-4203.	3.9	3
149	The annual ASCI meeting: does nostalgia have a future?. Journal of Clinical Investigation, 2008, 118, 1231-1233.	3.9	2
150	Conformational Changes in Î²â€arrestin1: The Importance of Î²â€arrestin1â€™s Nâ€domain. FASEB Journal, 2006, 20, A114.	0.2	0
151	[beta]â€arrestin 1 mediates angiotensin II induced ubiquitination and downâ€regulation of TRPV4. FASEB Journal, 2009, 23, 944.3.	0.2	0
152	Crystal structure of active Betaâ€arrestin1 bound to phosphorylated carboxyâ€terminus of a G proteinâ€coupled receptor. FASEB Journal, 2013, 27, lb549.	0.2	0
153	Targeting Î²-arrestin2 Enhances Survival in a Murine Model of Chronic Myeloid Leukemia. Blood, 2013, 122, 857-857.	0.6	0
154	<i>Response</i> : Analysis of Ligand Binding Specificity of Receptor Chimeras. Science, 1989, 243, 237-237.	6.0	0
155	Î²-arrestin2 Is Necessary for Development of MPLW515L Mutant Primary Myelofibrosis. Blood, 2015, 126, 486-486.	0.6	0